<b>Work Orde</b> April-04-14 10:		5849		*115	849*							Page 1
Item ID: Revision ID: Item Name:	D3407-3			Accept	*N90	<b>0040</b>	1100	<b>)*</b> s	Setup	Start Stop	171	S1* S2*
Start Date: Required Date: Reference:	4/04/14	Start Qty: 20.00 Req'd Qty: 20.00	*20* *20*		Cust Ite Custom						"IXI	
Approvals:		n: <u>M</u> U5	Date: 14-04-0			Date:		F	Run	Start Stop	~!//	R1* R2*
Sequence ID/ Work Center II	<b>D</b>	Operation Description		Set Up/ Run Hours	Tool 1	D Tool #	# Plan Code	Accept Qty	Rej Qty		Reject Number	Insp. Stamp
Draw Nbr	Revi	ision Nbr			<del></del>							
D3407	Rev	E	S									
100 *1 \\ Doosan \\ Doosan Lathe		DOOSAN LATHE  Memo  1-Turn as pe	r Folio FA597 Rev: 🏄 .	0.00 0.00 & Dwg D3407 Rev:	_2-Deburr	÷		20		Ø		DAS 40 9-89 14/04/20
110 *110* QC Quality Control		QC2- Inspect parts off m	achine FAI/FAIB	0.00				20	2	<u>)</u>		DAS 40 9-89 14/04/10
120 *120* QC		QC8- Inspect parts - seco	ond check	0.00	B. 2 141	04/21		20		<b>\$</b>		DAS 08 9-89

Quality Control

DQA:			Date:											<b>DART</b>
QA Closed:			Date:			WORK ORDER NON-	-CC	ONFO	RMANCE / UF		Work	Order up	odate only	AEROSPACE
NA/ and of Our de				***************************************		DISPOSITION				AGAINST I	DEPA	RTMENT	/PROCESS	
Work Orde	er:					Rework	ıÎ		Skid-tube	Crosstube	$\neg$	Water Jet		Engineering
Part N	J۸					Scrap	<b>⊢</b> ⊸ I		Machining Small Fal		<b></b>		d. Eng. Coor.	Quality
, 4, ( )	•••					Use-as-is			noforming	Finishing	$\dashv$		re/Packaging	Other
NCR N	lo.					Suspected Unapproved			Large Fab	Composite	$\neg$	,	Supplier	1
	,					· · · · · · · · · · · · · · · · · · ·	•			·				
Root					Desci	ription of work order update	١	nitial	Act	ion		Sign &		
Cause		Date	Step	Qty		or non-conformance	Ch	ief Eng	Descr	iption		Date	Verification	QC Inspector
Design														
Doc/Data														
Equip/Tooling											İ			
Handling/Pre														
Material														
Operator														
Offset/Setup			ļ											
Process														
Supplier														
Training											-			
Transport														
Unapproved							ł							
<u> </u>							FA	ULT CAT	TEGORY					
Landi	ng (	Gear			_	General	_	•		-			_	<del>-</del>
	L	Bending				Bend		Folio/F	rogram	Ļ	_	ıtside Dim	<u></u>	Pressure/Forced
		Centre No	ot Concer	ntric		BOM/Route	L	Grain			_	•	tolerance	Set-up
•	<u> </u>	Cracks				Broken/Damage/Defect		Hardwa	re			rt Incorre	<b>⊢</b>	Temperature/Cure
		Crimp/Kir	nk/Ripple	/Wave		Burrs		Inspect	ion Incomplete/Un	qualified	Pa	rt Lost/M	issing	Weld
		Cuffs				Contamination		-	ions Incomplete/U	Jnclear	Pa	rt Moved		Wrong Stock Pulled
		Crushing				Countersink		Misalig	ned/off center		Pc	sitioned V	Vrong	_
		Heat Trea	it			Cut Too Short		Mislabe	eled		Pc	wer Loss/	Surge	Other
		Inspectio	n Strip in	Tube		Drawing		Misread	t					
		Marks/Ch	atter			Drill Holes		Off-set			_			
		Turning S	equence			Finish		Out of (	Calibration					
		Wave/Tw	ist in Tub	oe		Fit/Function		Out of	Sequence					<u> </u>

<b>Work Ordo</b> April-04-14 10:		115849		*115	849*							Page 2
Item ID: Revision ID: Item Name:	D3407-3 Stem			Accept	*N900	<b>040</b>	100	)*	Setup	Start Stop		S1* S2*
Start Date: Required Date: Reference:	4/04/14 4/04/14	Start Qty: 20.00 Req'd Qty: 20.00	*20* *20*		Cust Item II Customer:	D;					• -	
Approvals:	Process	Plan:	Date:	Tooling:	Da	ite:	_		Run	Start	*N	R1*
	QC:		Date:	<b>SPC</b> (Y/N):	Da	ite:				Stop	*N	R2*
Sequence ID/ Work Center I	D	Operation Description Identify as per dwg & Sto	ck Location (170.7	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accep Qty	t Rej Qty		Reject Number	Insp. Stamp
*130* Packaging		Memo		0.00				2001	۷		14-	4-21
Packaging		QC21- Final Inspection -	Work Order Release	0.00								DAS 26 9-89

0.00

Memo

\*140\*

Quality Control

MLZ 14-04-21

DQA: Date:	
WORK ORDER NON-CONFORMANCE / UPDATE  QA Closed: Date: Work Order update only	AEROSPACE
QA Closed. Date.	
Work Order:  DISPOSITION  AGAINST DEPARTMENT/PROCESS	
	Engineering
Part No. Scrap Machining Small Fab Prod. Eng. Coor.	Quality
Use-as-is Thermoforming Finishing Rec/Store/Packaging	Other
NCR No Suspected Unapproved Large Fab Composite Supplier	
Root Description of work order update Initial Action Sign &	
Cause         Date         Step         Qty         or non-conformance         Chief Eng         Description         Date         Verification	QC Inspector
Design	
Doc/Data	
Equip/Tooling	
Handling/Pre Handling/Pre	
Material	
Operator	
Offset/Setup	
Process	
Supplier	
Training	
Transport	
Unapproved FAULT CATE CORV	
FAULT CATEGORY	
Landing Gear General  Bending Bending Bend Folio/Program Outside Dimensions Pr	essure/Forced
	et-up
	emperature/Cure
	/eld
	rong Stock Pulled
Crushing Countersink Misaligned/off center Positioned Wrong	Tong Stock Fulled
	ther
Inspection Strip in Tube Drawing Misread	
Marks/Chatter Drill Holes Off-set	
Turning Sequence Finish Out of Calibration	<u> </u>
Wave/Twist in Tube   Fit/Function   Out of Sequence	

**Picklist Print** 

April-04-14 10:23:14 AM

Page 1

Work Order ID: 115849

\*115849\*

Parent Item:

D3407-3

\*D3407-3\*

Parent Item Name: Stem

**Start Date:** 4/04/14

Required Date: 4/04/14

**Start Qty: 20.00** 

Required Qty: 20.00

**Comments:** 

IPP Rev:A05.10.18New issueKJ/EC

IPP Rev:B Now on Doosan 08-05-14 JLM Verified By:DD

IPP Rev:C 08-08-12 revE as per dwg (ecn 08-507) DD verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M174R0.750		Purchased	No			100	f	45.0000	0.366	7.705264			
<b>*M174R0</b> 17-4 round bar .750	750*								**			14/04/	Zo 40 9-89
				Location	<u>ı</u>	Loc	<u>Oty</u>	Loc Code					

Location		Loc Qty	Loc Code	
MAT030		45		
~P	m127647	45		<u>8,5</u>

DQA:			Date:						_						TOART
QA Closed:			Date:			WORK ORDER NON-	-CC	ONFO	RMANCE / UF		Wo	ork Order up	odate only 「	_	AEROSPACE
						DISPOSITION						•			
Work Orde	er: _					DISPOSITION		AGAINST DEPARTMENT/PROCESS					/ FROCESS		
	_					Rework			Skid-tube	Crosstube			Water Jet		Engineering
Part N	۱o					Scrap			Machining	Small Fab		Pro	d. Eng. Coor.		Quality
						Use-as-is		Therr	noforming	Finishing	_	Rec/Sto	re/Packaging		Other
NCR N	۱o. <sub>-</sub>		·			Suspected Unapproved			Large Fab	Composite			Supplier		
Root					Desci	ription of work order update	П	Initial Action		ion		Sign &			
Cause		Date	Step	Qty		or non-conformance	l	ief Eng	Descr	iption		Date	Verification		QC Inspector
Design			<u> </u>							<u> </u>					· · · · · · · · · · · · · · · · · · ·
Doc/Data												;			•
Equip/Tooling			1												
Handling/Pre				i											
Material															
Operator					•										
Offset/Setup															
Process															
Supplier				Ì			ļ								
Training							1								
Transport															
Unapproved															
							FA	ULT CA	TEGORY						
Landi	ng G	iear				General		_				-	_		
		Bending				Bend	L	Folio/f	Program			Outside Dim	ensions		Pressure/Forced
		Centre No	ot Concer	ntric	L	BOM/Route		Grain				Over/Under	tolerance		Set-up
		Cracks	•		L	Broken/Damage/Defect		Hardwa	are			Part Incorre	cí [		Temperature/Cure
		Crimp/Kir	nk/Ripple	/Wave	L	Burrs	L	Inspect	ion Incomplete/Ur	nqualified		Part Lost/Mi	ssing		Weld
		Cuffs				Contamination		Instruc	tions Incomplete/U	Inclear		Part Moved	Į		Wrong Stock Pulled
		Crushing		•		Countersink		Misali	gned/off center			Positioned V	Vrong		•
		Heat Trea	at			Cut Too Short		Mislab	eled			Power Loss/	Surge		Other
		Inspectio	n Strip in	Tube	[	Drawing		Misrea	d						
		Marks/Ch	natter			Drill Holes		Off-set							
		Turning S	equence			Finish		Out of	Calibration				***************************************		
		Wave/Tw	ist in Tul	oe .		Fit/Function		Out of	Sequence						

DART AEROSPACE LTD	Work Order:	115849
Description: Stem	Part Number:	D3407-3
Inspection Dwg: D3407 Rev: E		Page 1 of 1

## FIRST ARTICLE INSPECTION CHECKLIST

X First Arti	cle	Prototype
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Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
0.063	+/-0.010	. 073			NEW	P+10-12
1/4-28 UNF	Max: 0.2668 Min: 0.2635	.266			Mic	P40-02
Major Ø	Max: 0.249 Min: 0.2425	. 247			Mic	P-10-02
Ø0.625	+/-0.010	. 626			VGRN	R40-12
Ø0.363	+/-0.010	-363			٠,	
Ø0.750	+/-0.010	. 749			11	L
R0.100	+/-0.010	, 100			Rad G	
0.470	+/-0.010	. 470		· ·	NEW	PLD-12
0.250	+/-0.010	253		1.1/1.		
2.555	+/-0.010	2,5SZ			Prop.	• •
3.305	+0.000/-0.010	3,300			ι -	
4.325	+/-0.010	4, 325			15	e g. igai
0.150	+/-0.010	.154			1.	L.
0.550	+/-0.010	. 556				',
0.625	+/-0.010	. 628	V		rl	t,
0.250	+0.010/-0.000	.251			10	, .
					,	

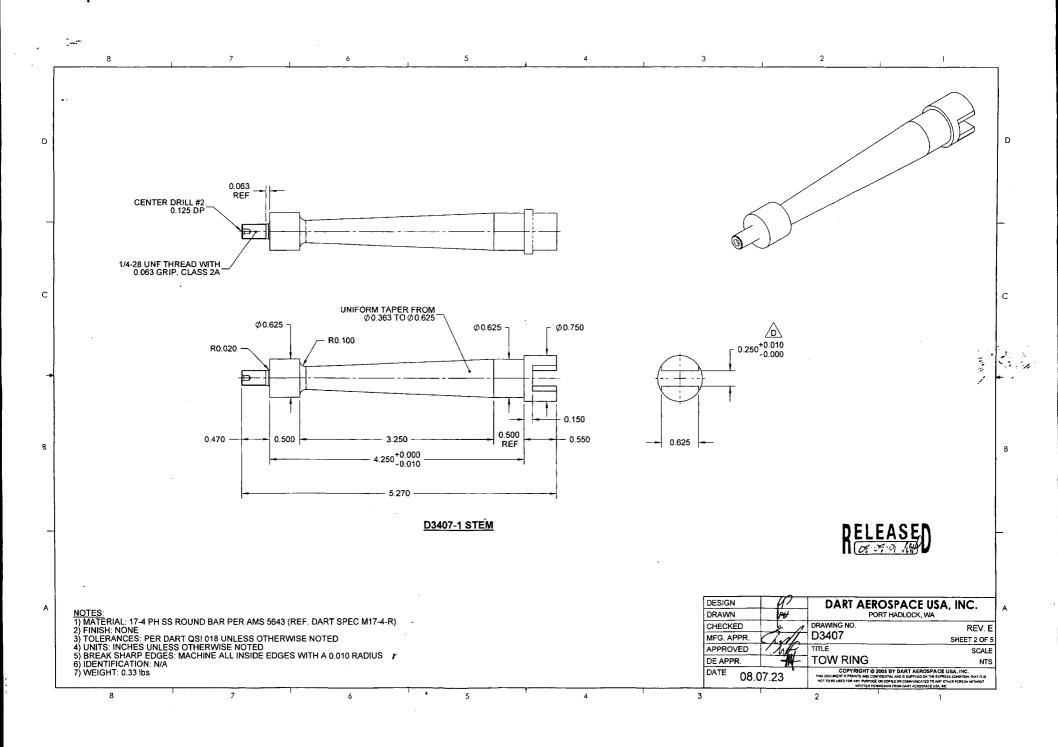
DAS

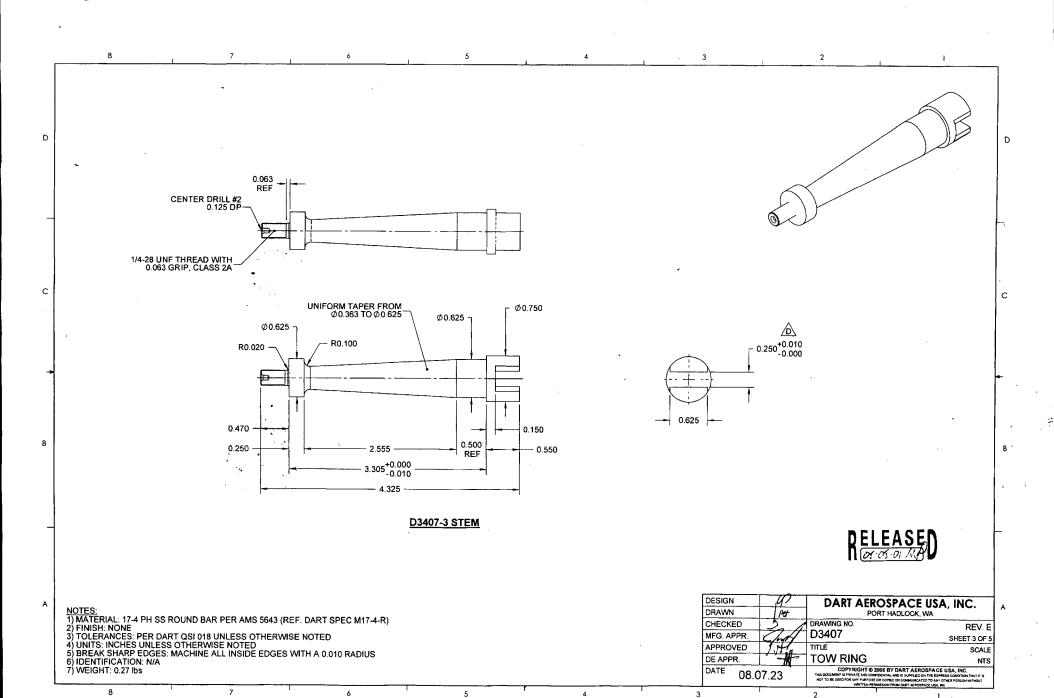
Measured by:	40 9-89	Audited by:	A.	DAS	Prototype Approval:	N/A
Date:	14/64/20	Date:	14/04/21	9-89	Date:	N/A

Rev	Date	Change	Revised by	Approved
Α	06.11.08	New Issue	KJ/JLM	
В	07.09.26	Tolerances revised	KJ/EC	
С	08.05.14	Dimensions updated per Dwg Rev D	KJ/JLM LA	
D	08.10.07	Dimensions updated per Dwg Rev E	KJ/DD 👭	X

8 Æ QTY -045 PART NUMBER DESCRIPTION D3407-041 **TOW RING** D3407-043 TOW RING D3407-045 TOW RING D D STEM D3407-1 1 D3407-3 STEM D3407-5 RING D3407-7 STEM D3407-5 RING -D3407-5 RING -D3407-5 RING 8 8 8 112840 MCZ PO-40-11 E -D3407-1 STEM 6 -D3407-3 STEM D3407-7 STEM **D3407-041 TOW RING D3407-043 TOW RING D3407-045 TOW RING** ADD D3407-045 (ZN B2-1, D8-1); ADD D3407-7 (ZN B6-5); REVISED NOTE 5 TO ADD IDENTIFICATION (ZN A5-1); REASON: PRODUCTION FACILITY 08.07.23 D3407-1/-3 SLOT WAS ROUND NOW FLAT FOR ASSEMBLY WITH D3407-5 (ZN C2-2, C2-3); D3407-5 WAS ROUND NOW FLAT ON ONE END FOR ASSEMBLY WITH D3407-1/-3 (ZN B6-4); REASON: PRODUCTION FACILITY 08.04.07 С -1/-3 LONGER FOR FIT W/WASHER 05.09.09 UPDATE DIAMETER, THREAD CLASS ADDED В CP 05.06.17 Α NEW ISSUE СР 05.03.16 REV. DESCRIPTION BY DATE DESIGN DART AEROSPACE USA, INC. PORT HADLOCK, WA DRAWN 1) MATERIAL, MA 2) FINISH: POWDER COAT WHITE (4.3.5.2) PER DART QSI 005 4.3 (EXCEPT THREADS) 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED 4) UNITS: INCHES UNLESS OTHERWISE NOTED DRAWING NO. CHECKED REV. E D3407 MFG. APPR. SHEET 1 OF 5 5) BREAK SHARP EDGES: N/A APPROVED SCALE 5) BERAN SHARE CLUSES, INA
6) IDENTIFY WITH DART P/N "D3407-XXX" USING BLACK FINE POINT PERMANENT INK MARKER
7) WEIGHT: D3407-041 - 0.60 lbs, D3407-043 - 0.53 lbs, D3407-045 - 0.61 lbs
8) WELD PER DART QSI 004 ON ALL EDGES BETWEEN STEM AND RING **TOW RING** DE APPR. NTS COPYRIGHT © 2005 BY DART AEROSPACE USA, INC.

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